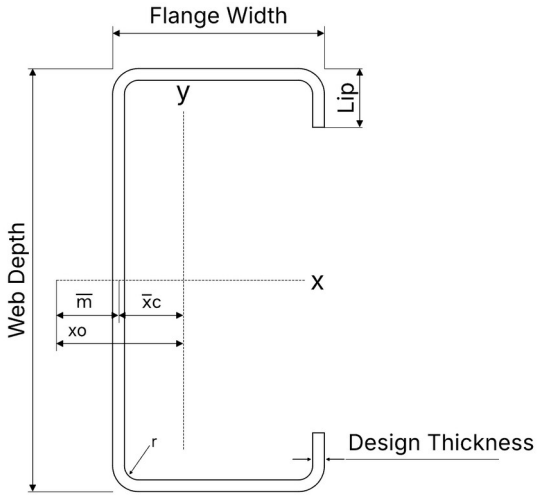
PRODUCT SUBMITTAL SHEET

Product Type: Structural Stud

Product Definition: 350S162-54-U (33ksi, Unpunched)

CSI Code: 05 41 00



Profile Properties:

Web Depth	3.500 in	Yield Strength Fy:	33 ksi
Flange Width	1.625 in	Unit Weight	1.41 lb/ft
Stiffening Lip	0.5000 in	Punchout Width / Length	None (unpunched)
Design Thickness	0.0566 in	Coating	G60 or G90
Thickness	54 mils (16 Ga)	Min. Steel Thickness	0.0538 in
Inside Bend Radius	0.0849 in	Tensile Strength Fu	45 ksi

Gross Section Properties:

Cross Sectional Area	Agross	0.4148 in2
Member weight per foot of length		1.41 lb/ft
Moment of Inertia. x-axis	Ix	0.8046 in4
Section Modulus. x-axis	Sx	0.4597 in3
Radius of Gyration. x-axis	rx	1.3926 in
Moment of Inertia. y-axis	Iy	0.1523 in4
Radius of Gyration. y-axis	ry	0.6060 in

Torsional Properties:

St. Venant Torsion Constant	J x 1000	0.4430 in4
Warping Constant	Cw	0.4256 in6
Distance Between Shear Axis and Neutral Axis	x0	-1.2983 in
Shear Center to Web Centerline	m	0.7816 in
Polar Radius of Gyration	r0	1.9980 in
Torsional Flexural Constant	β	0.5778
Limit of Unbraced Length	Lu	43.26 in

Effective Section Properties:

Effective Area	Aeff	0.3748 in2
Effective Moment of Inertia for Deflection	Ixe	0.8043 in4
Effective Section Modulus	Sxe	0.4597 in3
Allowable Bending Moment	Ma	9.0831 in.k
Allowable Moment (Distortional Buckling)	Mad	9.0848 in.k
Allowable Shear Force (Solid Section)	Vag	2253 lbs

Codes & Standards:

- Calculations are based on AISI S240-20 and AISI S100-16 (2020) w/S2-20.
- AISI S240-20 North American Standard for Cold-Formed Steel Structural Framing: Section A3 Material (ASTM A1003/A1003M); Section A4 Corrosion Protection (ASTM A653/A653M); Section A5 Products – thickness, shapes, tolerances, identification; Section C Installation (ASTM C1007).
- IBC 2024 International Building Code. ASTM C955. ASTM A1003. ASTM A653 SS Grade 33. Coating G60 or G90 per AISI S240 Section A4.
- ICC-ES ESR-5905 UMS Joists, UMS Studs and UMS Tracks.
- LEED / Sustainability Credits: Environmental Product Declaration S-P Code: S-P-00869
- Note: Supplied without web punch-outs.

Structural Studs. The technical content of this literature is effective 10/30/2026 and supersedes all previous information.